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FLOOD CONTROL STUDY AREA PAHALA KA'U HAWAII(U) SCIENCE
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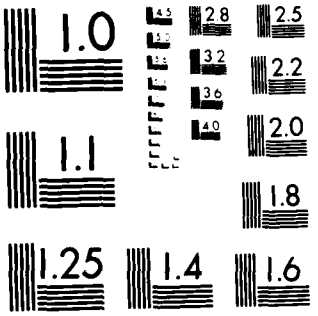

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AN ARCHAEOLOGICAL RECONNAISSANCE OF THE PA'AU'AU STREAM FLOOD CONTROL STUDY AREA PAHALA, KA'U, HAWAII

by

Hamilton M. Ahlo, Jr.

prepared for

U.S. Army Engineer Division, Pacific Ocean

September 1, 1981

Science Management Inc.

AN ARCHAEOLOGICAL RECONNAISSANCE OF THE PA'AU'AU STREAM FLOOD CONTROL STUDY AREA, PAHALA, KA'U, HAWAII

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PREPARED UNDER PURCHASE ORDER NO. DACW84-81-M-0486

SEPTEMBER 1, 1981

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INTRODUCTION

At the request of the Pacific Ocean Division, U.S. Army Corps of Engineers, the author undertook an on the ground archaeological reconnaissance of Pa'au'au Stream Flood Control Study Area, Pahala, Ka'u, Hawaii. The work was performed under Purchase Order No. DACW84-81-M-0486.

The study area is composed of an area approximately 25 feet (ca. 7.6m) on either side of Pa'au'au Stream between H-11 (Mamalahoa Hwy. or Volcano Road) and Wood Valley Road approximately 4000 feet (1.2 km.) upstream from the highway. The western bank of the stream has been extensively modified by residential construction. The eastern bank of the stream has also been modified by bulldozing, pasture use and orchards. Vegetation in the area consists of various grass species, eucalyptus species, koa haole (Leucaena glauca) and kukui (Aleurites moluccana). The study area receives approximately 50" of rain a year, primarily during the winter months.

The stream bed is predominantly bedrock though some alluvial deposits are present in the lower portion of the project area. The stream gradient is relatively gentle: the total elevation differential within the study area is only 400 feet (122m). The banks of the stream range from vertical basalt escarpments 20 feet (6.1m) high in the upper portion of the study area to gradually sloping alluvium in the lower portion of the study area. The stream was not flowing at the time of the survey though it appears to be an intermittent stream with periods of high energy, short duration discharge.

The study area lies within two land units (cf. U.S.G.S. Pahala 15' Quadrangle): Pa'au'au 2nd and Iliokoloa. It is unclear whether these represent ili or ahupua'a though it is probable that they are both ili that share a common boundary (Pa'au'au Stream).

LITERATURE SEARCH

A brief literature search of readily available material at the State Historic Preservation Office, the University of Hawaii Hawaiian Pacific Collection and the B.P. Bishop Museum Library was conducted to determine if any previous archaeological work had been conducted in the area and to identify any known archaeological or historic properties in the area. In addition, Ms. Virginia Goldstein of Hawaii County Planning Department and Mrs. Violet Hansen, a know-

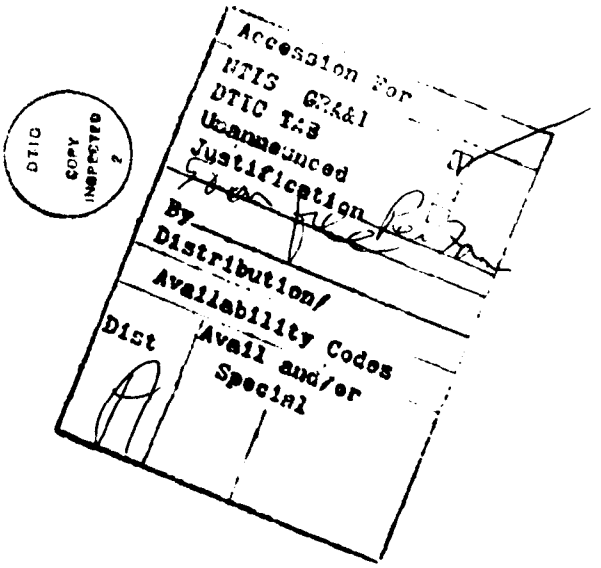
ledgeable resident of the Volcano area were consulted to see if they were aware of any previous work or of any sites in the area. No references to previous work near the Stream or of any sites near the Stream were found.

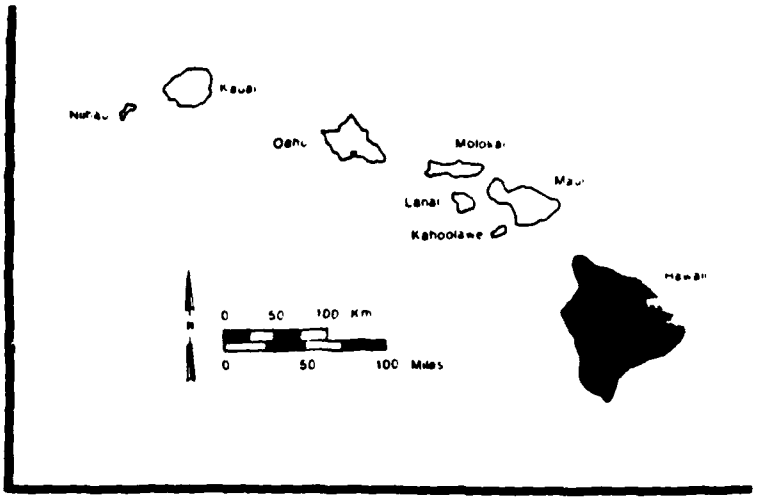
SURVEY RESULTS

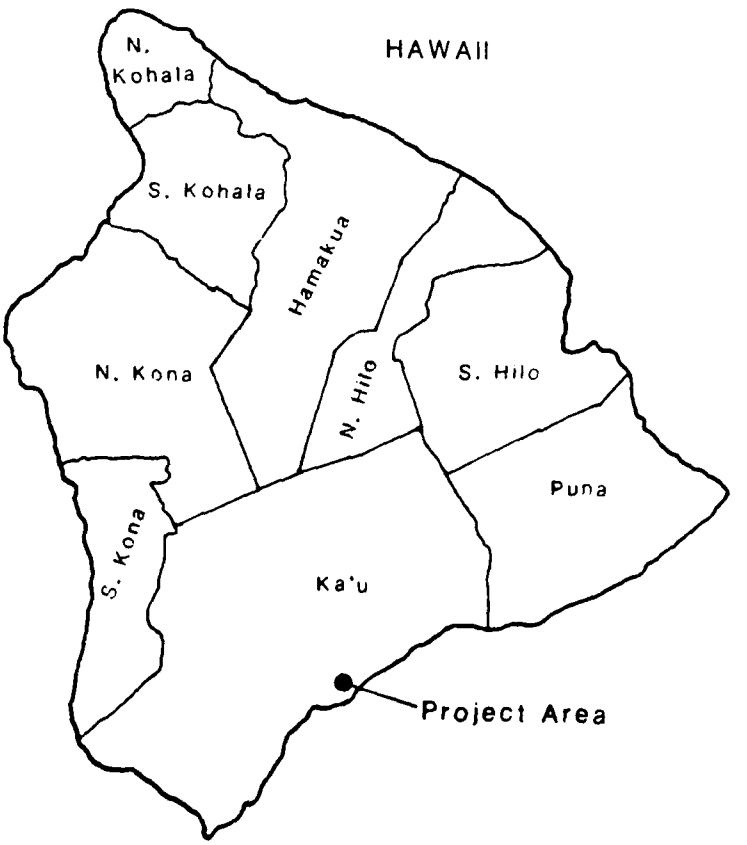
The entire study area was inspected on foot on August 20, 1981. Both banks of the stream as well as the stream bed itself were examined. No arcaheological deposits or other items of cultural historical or archaeological interest were noted. Given the extensive disturbance along both banks of the stream, it is very unlikely that any such features that may once have been present remain intact. Inspection of the stream banks in areas where alluvial deposits were present revealed no signs of any archaeological deposits.

RECOMMENDATIONS

The proposed flood control project should have no effect on any cultural resources eligible for inclusion on or included on the National Register of Historic Places. Though extremely improbable, it is possible that subsurface cultural deposits may be revealed if the flood control project is implemented. In this event, I recommend that work be halted and a qualified archaeologist be consulted as to the appropriate course of action. No further archaeological work in the study area is warranted.

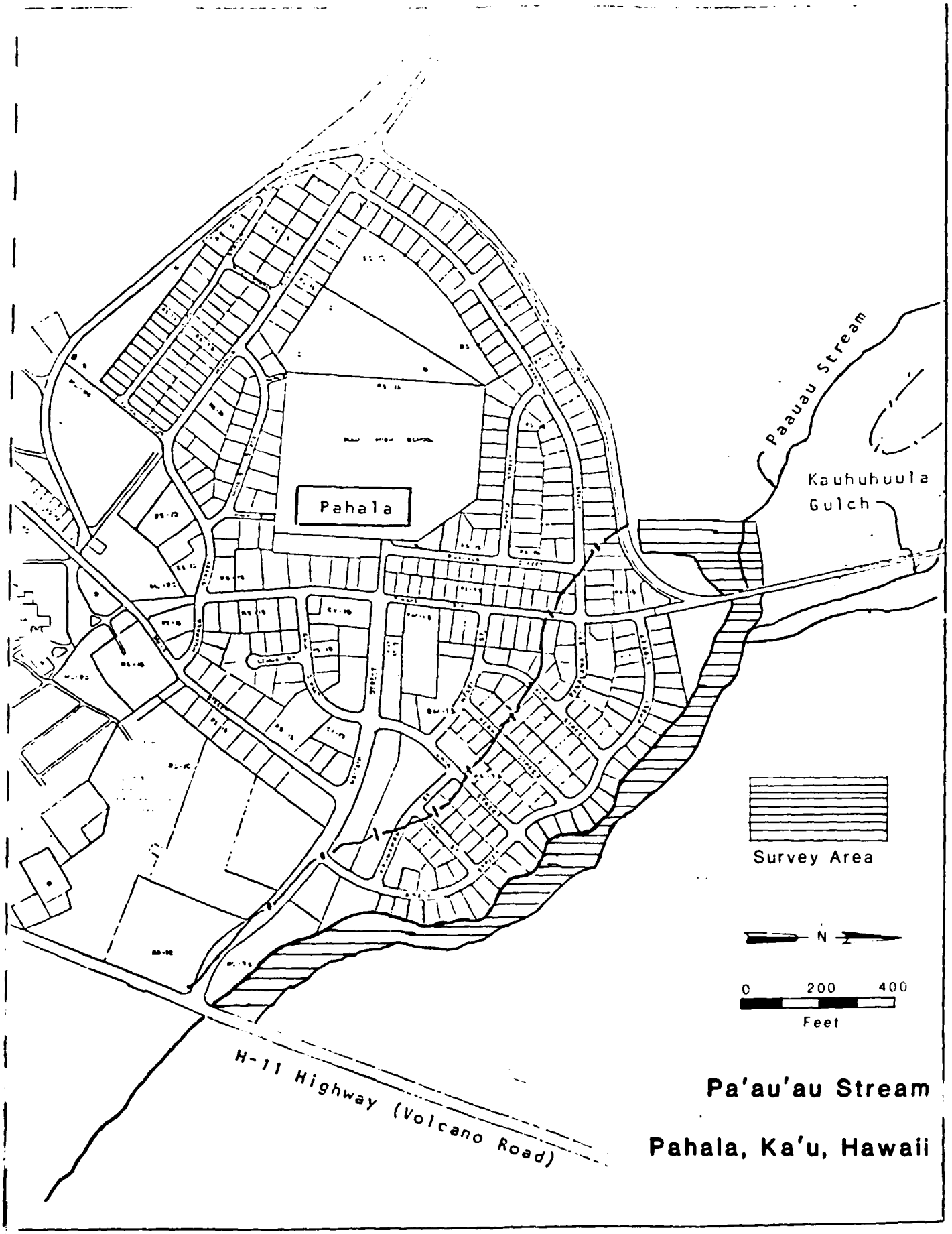






General Study Area

Pahala, Ka'u, Hawaii



Pa'au'au Stream

Pahala, Ka'u, Hawaii